

GS04 0223 Fundamental Mechanisms of Cancer Development
Fall Semester 2018 – Monday, Wednesday, and Friday
August 27, 2018-December 14, 2018 | Mon/Wed/Fri 1:00 PM to 2:00 PM GSBS Small
Classroom (BSRB S3.8367)

August

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|--------|--|----------------------|
| 27-Mon | Introduction: Class format, objectives, and philosophy | Boyi Gan/Jichao Chen |
| 29-Wed | Cell proliferation in cancer | David Johnson |
| 31-Fri | Cell proliferation in development/homeostasis | Jichao Chen |

September

03-Mon No Class - Labor Day

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| 05-Wed | Cell proliferation paper discussion (Note: David will direct paper discussion through video conference from the Science Park.) | David Johnson |
| 07-Fri | Cell death in development/homeostasis | Eisenhoffer |
| 10-Mon | Cell Death in Tumors and cancer | James You |
| 12-Wed | Cell Death paper discussion | Eisenhoffer & You |
| 14-Fri replication | Guarding the genome in homeostasis and development of cancer – DNA | Lei Li |
| 17-Mon | Guarding the genome in homeostasis and development of cancer – DNA repair | Lei Li |
| 19-Wed | Guarding the genome paper discussion | Lei Li |
| 21-Fri | Inflammation in cancer | Peyman Moghaddam |
| 24-Mon | Inflammation in development/homeostasis | Stephanie Watowich |
| 26-Wed | Inflammation paper discussion | Stephanie Watowich |
| 28-Fri | Hippo signaling in development/homeostasis | Andrew Gladden |

October

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|--------|--|-----------------|
| 01-Mon | Hippo signaling in cancer | Junjie Chen |
| 03-Wed | Hippo signaling paper discussion | Andrew + Junjie |
| 05-Fri | Tumor suppressor genes in Dev/homeostasis | Gigi Lozano |
| 08-Mon | Tumor suppressor genes in cancer | Gigi Lozano |
| 10-Wed | Tumor suppressor genes paper discussion | Gigi Lozano |
| 12-Fri | Wnt signaling in development/homeostasis | Pierre McCrea |
| 15-Mon | Wnt signaling in cancer | Jian Hu |
| 17-Wed | Wnt signaling paper discussion | Jian + Pierre |
| 19-Fri | Non-coding RNAs in development/homeostasis | Swathi Arur |
| 22-Mon | Non-coding RNAs in cancer and therapy | Li Ma |
| 24-Wed | Non-Coding RNAs paper discussion | Li Ma |
| 26-Fri | The Cancer Genome | Nick Navin |
| 29-Mon | RTKs as oncogenes | Wenliang Li |
| 31-Wed | RTK signaling in development/homeostasis | Swathi Arur |

November

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|--------|--|-------------------|
| 02-Fri | RTK paper discussion | Swathi & Wenliang |
| 05-Mon | Stem cells in development/homeostasis | Jichao Chen |
| 07-Wed | Stem cells in cancer | Sendurai Mani |
| 09-Fri | Stem cells paper discussion | Jichao + Mani |
| 12-Mon | Metabolism in development/homeostasis | Peiying Yang |
| 14-Wed | Metabolism in cancer | Boyi Gan |
| 16-Fri | Metabolism paper discussion | Peiying + Boyi |
| 19-Mon | Epigenetic mechanisms in homeostasis/development | MinGyu Lee |

21-Wed **no Class**

23-Fri **No Class – Thanksgiving Break**

26-Mon Epigenetic mechanisms in cancer Pawel Mazur

28-Wed Epigenetic paper discussion MinGyu & Pawel

30-Fri Tissue repair versus development Michael Galko

December

03-Mon Tissue repair versus Cancer paper discussion Michael Galko

05-Wed Tissue repair versus Cancer paper discussion Michael Galko

07-Fri Class Presentations Students